

Amendment to the Claims

Please cancel claims 62-72 and 82-87 without prejudice to pursuing these claims in a continuation, divisional, continuation-in-part, or other application. Please withdraw claims 80 and 81 without prejudice to consideration of these claims upon allowance of a generic claim, and please add new claims 124-134.

1-72. (Cancelled)

73. (Original) A microelectronic assembly, comprising:

a microelectronic substrate having a first surface, a second surface facing opposite from the first surface, and a first bond site positioned at least proximate to the second surface; and

a connection structure disposed on the second surface of the microelectronic substrate, the connection structure having a second bond site configured to receive a flowable conductive material, the connection structure further having at least two elongated members connected to and extending outwardly from the second bond site.

74. (Original) The assembly of claim 73 wherein each elongated member is configured to receive at least a portion of the flowable conductive material from the second bond site.

75. (Original) The assembly of claim 73 wherein at least one of the elongated members is electrically coupled to the first bond site of the microelectronic substrate.

76. (Original) The assembly of claim 73 wherein none of the elongated members of the connection structure are connected to any bond sites of the microelectronic substrate.

77. (Original) The assembly of claim 73, further comprising a volume of flowable conductive material disposed on the second bond site.

78. (Original) The assembly of claim 73 wherein the connection structure includes a metal redistribution layer deposited on the microelectronic substrate.

79. (Original) The assembly of claim 73 wherein the microelectronic substrate has a first surface and a second surface facing opposite from the first surface, and wherein the first bond site is positioned at least proximate to the second surface, further wherein the elongated members are spaced apart from the second surface in a plane generally parallel to the second surface.

80. (Withdrawn) The assembly of claim 73 wherein the microelectronic substrate has a first surface and a second surface facing opposite from the first surface, and wherein the first bond site is positioned at least proximate to the second surface, and wherein the elongated members each have a first surface and a second surface facing opposite from the first surface, and wherein the assembly further comprises:

a first passivation layer between the second surface of the microelectronic substrate and the first surfaces of the elongated members;

a second passivation layer adjacent to the second surfaces of the elongated members; and

a conductive coupler disposed on the second bond site, the conductive coupler including a flowable conductive material.

81. (Withdrawn) The assembly of claim 73 wherein the microelectronic substrate has a first surface and a second surface facing opposite from the first surface, and wherein the first bond site is positioned at least proximate to the second surface in a first plane generally parallel to the second surface, further wherein the second bond site is positioned in a second plane generally parallel to and spaced apart from the first plane.

82-123. (Cancelled)

124. (New) An electronic device, comprising:
a microelectronic substrate having a plurality of bond pads; and
a connection structure disposed on the microelectronic substrate, the connection
structure having a bond site configured to receive a flowable conductive
material, the connection structure further having at least two elongated
members, each of which is connected to and extends outwardly from the
bond site, each elongated member being configured to receive at least a
portion of the flowable conductive material from the bond site, and neither
of which is electrically connected to one of the bond pads.

125. (New) The device of claim 124 wherein each elongated member is
configured to receive at least a portion of the flowable conductive material from the
bond site.

126. (New) The device of claim 124 wherein the connection structure is a first
connection structure and the elongated members are first elongated members
configured to receive at least a portion of the flowable conductive material from the first
bond site, wherein the device further comprises a second connection structure carried
by the microelectronic substrate, the second connection structure having a second bond
site configured to receive a flowable conductive material, the second connection
structure further having second elongated members extending outwardly from the
second bond site, wherein each of the second elongated members is configured to
receive at least a portion of the flowable conductive material, and wherein at least one
of the second elongated members extends between the second bond site and one of
the bond pads.

127. (New) The device of claim 124 wherein the elongated members are
configured to be wetted by the flowable conductive material when the flowable
conductive material is in a flowable state.

128. (New) The device of claim 124 wherein the two elongated members
extend away from opposite sides of the bond site.

129. (New) The device of claim 124, further comprising a layer disposed on the elongated members and attached to the microelectronic substrate, the layer having an aperture aligned with the bond site.

130. (New) The device of claim 124, further comprising a layer disposed on the elongated members and attached to the microelectronic substrate, the layer having an aperture aligned with the bond site, and wherein a covered portion of each elongated member extends between the layer and the microelectronic substrate, and an exposed portion of each elongated member is exposed through the aperture, further wherein each exposed portion has approximately the same length.

131. (New) The device of claim 124 wherein the connection structure includes at least one electrically conductive metallic material.

132. (New) The device of claim 124 wherein the bond site includes a solder ball pad, and wherein the device further comprises a solder ball disposed on the solder ball pad.

133. (New) The device of claim 124 wherein at least one of the elongated members has a first end connected to the bond site and a second end spaced apart from the bond site, and wherein the elongated member includes an anchor toward the second end to secure the elongated member to the microelectronic substrate.

134. (New) The device of claim 124, further comprising a housing, wherein the microelectronic substrate is positioned within the housing.